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09/848,846 05/03/2001 Luan C. Tran MI22-1689 1789 21567 7590 03/24/2004 EXAMINER WELLS ST. JOHN P.S. SCHILLINGER, LAURA M 601 W. FIRST AVENUE, SUITE 1300 ART UNIT PAPER NUMBER	APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.		
WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300	09/848,846	09/848,846 05/03/2001		Luan C. Tran	MI22-1689	1789		
601 W. FIRST AVENUE, SUITE 1300	21567	7590	03/24/2004		EXAM	EXAMINER		
	WELLS ST	. JOHN I	P.S.	SCHILLINGER, LAURA M				
				ADTIBUT	ART UNIT PAPER NUMBER			
					2813			

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1,		Application	n No.	Applicant(s)			
09/848,846 TRAN, LUAN C.							
	Office Action Summary	Examiner		Art Unit			
		Laura M S		2813			
Period fo	The MAILING DATE of this communication or Reply	n appears on the	cover sheet with the c	orrespondence address			
A SHO THE I - Exter efter - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION IS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IS COMMUNICATION IN THE PROPERTY OF T	ON. FR 1.136(a). In no eve in. a reply within the statu eriod will apply and wil statute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) day l expire SIX (6) MONTHS from cation to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on :	19 December 20	003.				
·	· · · · · · · · · · · · · · · · · · ·	This action is no					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 11-15 is/are pending in the application 4a) Of the above claim(s) 13 and 15 is/are Claim(s) is/are allowed. Claim(s) 11,12 and 14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a	withdrawn from					
Applicati	on Papers						
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the control The oath or declaration is objected to by the	accepted or b)[o the drawing(s) be prection is require	e held in abeyance. See ad if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119						
12)□ , a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Business the attached detailed Office action for a	ments have beer ments have beer priority docume ureau (PCT Rule	n received. n received in Application nts have been received e 17.2(a)).	on No ed in this National Stage			
2) Notice 3) Inform	k(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>12/19/03</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Election/Restrictions

Newly submitted claims 13-15 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: claims 13 and 15 pertain to a separate species of invention which include masking only portions of peripheral devices and including only one source or drain.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 13-15 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dennison ('449).

In reference to claim 11, Dennison teaches a method comprising:

A masking step providing a common mask (Fig.2 (38)); and

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An implant step carried through the common mask, comprising conducting a halo implant of devices formed over a substrate comprising memory circuitry and peripheral circuitry sufficient to impart to at least <u>two</u> of the devices <u>two</u> different respective threshold voltages (Col.2, lines: 50-65, see also Fig.2 ((26), (18), and (22)), wherein the common masking step comprises masking only some of the devices which receive the halo implant, the portions comprising portions of peripheral circuitry (Fig.5 (66)).

However, Dennison fails to teach "at least three of the devices having three different threshold voltages. However, the courts have held that mere duplication of parts has no patentable significance unless a new or unexpected result is produced see *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

In reference to claim 12, Dennison teaches a method comprising:

A masking step providing a common mask (Fig.2 (38)); and

An implant step carried through the common mask, comprising conducting a halo implant of devices formed over a substrate comprising memory circuitry and peripheral circuitry sufficient to impart to at least two of the devices two different respective threshold voltages (Col.2, lines: 50-65, see also Fig.2 ((26), (18), and (22)), wherein the common masking step comprises masking only some of the devices which receive the halo implant, the devices being NMOSFETs, the portions comprising portions of peripheral circuitry (Fig.5 (66) and (Fig.2 (24, peripheral areas are (26) see also Col.3, lines: 10-20).

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In reference to claim 14, Dennison teaches a method comprising:

A masking step providing a common mask (Fig.2 (38)); and

An implant step carried through the common mask, comprising conducting a halo implant of devices formed over a substrate comprising memory circuitry and peripheral circuitry sufficient to impart to at least two of the devices two different respective threshold voltages (Col.2, lines: 50-65, see also Fig.2 ((26), (18), and (22)), wherein the common masking step comprises masking only some of the devices which receive the halo implant, the devices being PMOSFETs, the portions comprising portions of peripheral circuitry (Fig.5 (66) and (Fig.3 (22) see also Col.3, lines: 60-65).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dennison ('249) teaches similar NMOS and PMOS devices having memory areas and peripheral areas and utilizing partial masks.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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